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PN - DE29623806U U 19991223
 PD - 1999-12-23
 PR - DE19962023806U 19961220; DE19961053257 19961220
 OPD - 1996-12-20
 PA - MANNESMANN VDO AG (DE)
 EC - F16L37/04 (N)
 IC - F16L37/04 ; F16L33/213 ; B60S1/48

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TI - Plug=in connector for interconnecting two hoses - has flexible sleeve with annular groove on one connector in which rim on second connector fits

PR - DE19961053257 19961220; DE19962023806U 19961220

PN - DE59710548G G 20030911 DW200360 F16L37/04 000pp
 - DE19653257 A1 19980625 DW199831 F16L37/04 004pp
 - WC9828565 A1 19980702 DW199832 F16L37/04 Ger 000pp
 - EF0944795 A1 19990929 DW199945 F16L37/04 Ger 000pp
 - DE29623806U U1 19991223 DW200006 F16L37/04 000pp
 - CZ9902230 A3 20000216 DW200016 F16L37/04 000pp
 - BR9713604 A 20000404 DW200030 F16L37/04 000pp
 - US6152495 A 20001128 DW200063 F16L55/00 000pp
 - DE19653257 C2 20010913 DW200152 F16L37/04 000pp
 - EF0944795 B1 20030806 DW200359 F16L37/04 Ger 000pp

PA - (MANS) MANNESMANN VDO AG
 - (SIEI) SIEMENS AG

IC - B60S1/48 ; F16L33/213 ; F16L37/04 ; F16L55/00

IN - HOFFMANN H; SCHLEIN R; SCHLEIN F

AB - DE19653257 The connection between two hoses is made with a first part (6) which has an extension which fits in the bore of a first hose and a second part (5) which plugs into the first part. The second part has an extension which plugs into the bore of a second hose.
 - The first part has an end in the form of an elastic sleeve (8) which has an internal annular groove (9). The second part is in the form of a plug with an external annular rim. Rim and groove are dimensioned to fit inside one another. The edge of the annular groove, which lies behind the rim on the plug, has a steep chamfer which traps the rim in the groove. The other edge of the groove has a chamfer of shallow angle which matches the chamfer at the end of the plug.
 - USE - Especially for windscreen washer or wiper systems.
 - ADVANTAGE - Coupling can be easily and quickly made during assembly on motor vehicle.(Dwg. 1/2)

USAB - US6152495 The connection between two hoses is made with a first part (6) which has an extension which fits in the bore of a first hose and a second part (5) which plugs into the first part. The second part has an extension which plugs into the bore of a second hose.

- The first part has an end in the form of an elastic sleeve (8) which has an internal annular groove (9). The second part is in the form of a plug with an external annular rim. Rim and groove are dimensioned to fit inside one another. The edge of the annular groove, which lies behind the rim on the plug, has a steep chamfer which traps the rim in the groove. The other edge of the groove has a chamfer of shallow angle which matches the chamfer at the end of the plug.

- USE - Especially for windscreen washer or wiper systems.

- ADVANTAGE - Coupling can be easily and quickly made during assembly on motor vehicle.

OPD - 1996-12-20

DN - BR CZ PL US

DS - AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE LI

AN - 1998-349482 [31]